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(54) LOAD DISPERSION STRIPING SYSTEM

(57) Abstract:

PURPOSE: To prevent input and output from being congested on a specific storage device by determining storage devices to be assigned in predetermined order and updating a storage device control table according to the number of storage device and an assignment quantity which are calculated from the states of the respective storage devices stored in a storage device control table.

CONSTITUTION: The storage device control table 25 is referred to pieces of information on the input and output of the respective storage devices 4 to select a necessary number of storage devices in order from the device having the least input/output request quantity; when there are devices having the same quantity, the lengths of their queues are compared to select a shorter-length storage device and then a storage device having the largest data storage capacity. Further, the storage device having the largest data storage capacity is selected in the storage device control table 25 and after the storage devices to be stored with data are determined, the data storage capacity of each storage

device is updated. Actual input and output operation is performed by an input/output control part 3 a length of the input/output queue and input/output request quantity in the referred storage device control table 25 are updated. Consequently, a load is prevented from being concentrated on a specific storage device.

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